BOOK

ions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8

M. A. R. 57 (Ru

Measurement Book

No. B

496420

1st and final bill

Serial No. Premeasurements.

Name of Work Improvements to drains From of main road of To Hoodi Muneshwara layout in ward no.07- byalarayanapura.

Name of Contractor of nature of Agency Sri. N. Lokanathreddy.

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Job code:	007-18-	00007				
	Head of account:	P1771					
	A.S.NO:-	AE|CE(YNK)|323|18-19; dt: 08.02.18					
	T.S.NO:-	TS|CE(YNK)|10|18-19; dt: 26.07.18					
	Agg NO:-	No.BBMP|EE|BTP|WO|147|18-19; dt: 20.10.18					
	Work order no:-	No.EE|BTP|WO|147|18-19; dt: 20.10.18					
	Tender amount:-	21,95085.32.					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.01:- Premeasurements recorded on: 22.10.18						
	Earthwork excavation by manual means in ordinary soil, involving soil involving an average lift upto 1.5m excavated surface levelled and sides neatly dressed, the disposed earth to be levelled.,						
	RCC-drain main road LHS:						
	CH:						
	0-60	02	30.0	0.95	0.90	= 51.30	
	60-120	02	30.0	0.95	0.90	= 51.30	
	120-180	02	30.0	0.95	0.90	= 51.30	
	180-240	02	30.0	0.95	0.90	= 51.30	
	240-300	02	30.0	0.95	0.90	= 51.30	
	300-311	01	11.0	0.95	0.90	= 9.40	
						2.65	

M. A. R. 57
Measure

Serial No. .....
Name of Work ..... From.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number	Len
1	2	3	4
	overburden earth:	01	26

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

Item No.02:- Premeasurements record
Providing and laying in
nominal mix 1:4:8 using 40m

OK

Depth 6	Contents 7	Reference to last Measurement 8
ns in ordinary soil, upto 1.5m excavated d the disposal earth to		
0.90	= 51.30	
0.90	= 51.30	
0.90	= 51.30	
0.90	= 51.30	
0.90	= 51.30	
0.90	= 9.40	

2.65 .90

M. A. R. 57 (Ru
Measurement Bo

No. B

496421

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						= 265.90	
	Overburden earth:	01	26.0	0.65	0.95	= 12.35	
					Total=	278.25 cum	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

AE(I-II)

Item No.02: Premeasurements recorded on: 25.10.18

Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded,

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	RCC drain bottoms:						
	0-60	02	30.0	0.95	0.15	= 8.55	
	60-120	02	30.0	0.95	0.15	= 8.55	
	120-180	02	30.0	0.95	0.15	= 8.55	
	180-240	02	30.0	0.95	0.15	= 8.55	
	240-300	02	30.0	0.95	0.15	= 8.55	
	300-311	01	11.0	0.95	0.15	= 1.57	
						44.32 cum	
	Ramps for drains:-						
	0-300	02x5	30.0	0.30	0.15	= 13.50	
	300-311	01	11.0	0.30	0.15	= 0.49	
						13.99 cum	
				Total=		58.31 cum	

Executive Engineer,
Hesaraghatta Sub Division,
Kadigehalli Sub Division,
B.B.M.P.,

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work		Num
1	2		
	Item No.03:- Premeasurement		
	Providing TMT steel		
	straightening, cutting,		
		CH.	L
	Main rod Distribution	0-60	60
		60-120	60
		120-180	60

OK

Depth 6	Contents 7	Reference to last Measurement 8
0.15	= 8.55	
0.15	= 8.55	
0.15	= 8.55	
0.15	= 8.55	
0.15	= 8.55	
0.15	= 1.57	
	44.32 cum	
0.15	= 13.50	
0.15	= 0.49	
	13.99 cum	
ale	58.31 cum	

M. A. R. 57 (Rul
Measurement B

No. B

496422

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
Item.NO.03:-	Premeasurements recorded on: 27.10.18						
	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping.						
		CH.	L	No of rods	l. of U bar	Total length 10mm	Total length 8mm
	Main rod	0-60	60	672	2.10	1411.2	-
	Distribution			7	60	-	420
		60-120	60	672	2.10	1411.20	-
				7	60	-	420
		120-180	60	672	2.10	1411.20	-
				7	60	-	420
							1260

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	180-240	60	672	2.10	1411.20	-	
			07	60	-	420	
	240-300	60	672	2.10	1411.20	-	
			07	60	-	420	
	300-311	11	125	2.10	2625	-	
			07	11	-	77	
					7318.5	2177	
	10mm ø 0.62 kg/rm →		4537.47				
	8mm ø 0.39 kg/rm →		849.03				
	Total →		5.40 tonne				

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3
	Item No. 04:- Premeasurements for Providing and removing etc., RCC-drain-sidewall: CH.	
	0-60	2x
	60-120	2x
	120-180	2x
	180-240	2x
	240-300	2x
	300-311	1x

Assistant Executive Engineer.

OOK

Depth 6	Contents 7	Reference to last Measurement 8
1411·20	-	
-	420	
1411·20	-	
-	420	
2625	-	
-	77	
7318·5	2177	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496423

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Item No. 04:-	Premeasurements recorded on: 27.11.18						
	Providing and removing centering, shuttering, struting, propping etc.,						
	RCC-drain-sidewall:						
	CH.						
	0-60	2x4=8	30.0	-	0.60	= 144.0	
	60-120	2x4=8	30.0	-	0.60	= 144.0	
	120-180	2x4=8	30.0	-	0.60	= 144.0	
	180-240	2x4=8	30.0	-	0.60	= 144.0	
	240-300	2x4=8	30.0	-	0.60	= 144.0	Partly N.D
	300-311	1x4=4	11.0	-	0.60	= 26.40	AE(W)
						746.40 Sqm	

Assistant Executive Engineer.

MEASUREMENT BOOK

MAIN BILL:-

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.01:- Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.						
	Qty vide page no. 496421 →					278.25 cum	
	At the rate of Rs. 77.14 →						21464.21
	Item No.02:- Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms. th.,						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	Qty vide page no	
	At the rate of R	
	Item No.03:- Providing ... straightening, cutting and or welding where anchoring to the adj... per design.,	
	Qty vide pag...	
	At the rate	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.04:- Providing and removing, centering, shuttering, strutting propping etc., for columns, pillars, piers, abutments, post & struts, square /rectangular slabs / sidewalls polygon in plan including cost of materials, labour complete as per specification and directions of the engineer-in-charge.,						
	Qty vide page no. 496423 →				746.4 Sqm		
	At the rate of Rs. 344.12 →						256851.17
	Item No.05:- Providing and laying in position reinforced cement concrete of design mix M20 with 20mm and down of design						
	mix M20 with OPC cement @ 320 kgs with OPC cement						

M. A
Me

Serial No. .....
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	metal coarse aggregates @ with superplastizers @ 3 lts c	
	RCC drain bottom:-	
	0-60	02
	60-120	02
	120-180	02
	180-240	02
	240-300	02
	300-311	01

K

epth 6	Contents 7	Reference to last Measurement 8
	, shuttering, strutting	
	s, abutments, post &	
	alle polygon in plan	
	lete as per specification	
	746.48 sqm	
		256851.17
	reinforced cement	
	ement @ 320 kgs with	
	h OPC cement	

M. A. R. 57 (Rul
Measurement B

No. B 496425

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3 lts conforming to IS 9103-1999.,						
	Rcc drain bottom:-						
	0-60	02	30.0	0.75	0.15	= 6.75	
	60-120	02	30.0	0.75	0.15	= 6.75	
	120-180	02	30.0	0.75	0.15	= 6.75	
	180-240	02	30.0	0.75	0.15	= 6.75	
	240-300	02	30.0	0.75	0.15	= 6.75	
	300-311	01	11.0	0.75	0.15	= 1.24	
						34.99 cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	RCC drain - sidewall:				B/F. 34.99		
	0-60	02x2=4	30	0.15	0.60	= 10.80	
	60-120	2x2=4	30	0.15	0.60	= 10.80	
	120-180	2x2=4	30	0.15	0.66	= 10.80	
	180-240	2x2=4	30	0.15	0.60	= 10.80	
	240-300	2x2=4	30	0.15	0.60	= 10.80	
	300-311	1x2=2	11	0.15	0.60	= 1.98	
						55.98 cum	
				Total →		90.97 cum	
	At the rate of Rs. 5651.66 →						514131.51

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	Item No. 07:- Providing and reinforced cement concret down size, including cente machine mixed concrete compacted cost of all ma	52
	Pty Ltd	10 2
	At the rate	

OOK

Depth 6	Contents 7	Reference to last Measurement 8
	B/F. 34.99	
0.60	= 10.80	
0.60	= 10.80	
0.60	= 10.80	
0.60	= 10.80	
0.60	= 10.80	
0.60	= 1.98	
	55.98 cum	
→	90.97 cum	
		514131.51

M. A. R. 57 (Rul
Measurement B

No. B

496426

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No. 07:- Providing and fixing 10cm thick precast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size, including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cms th, well compacted cost of all materials labour curing complete)	520	0.60	0.75	-	= 234nos	
	Qty Ltd to 233.25 sqm						
	At the rate of Rs. 1862.70 →						434474.78

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 06:- Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459 cum, machine mixed concrete laid in layers not exceeding 15 cms, th well compacted, in foundation plinth and sills including cost of all materials, labour, TOM machinery curing complete.,						
	for ramps - to cc drain:-						
	0-30	02	28.0	0.30	0.10	= 1.68	
	30-60	02	29.0	0.30	0.10	= 1.74	
	60-120	02	27.0	0.30	0.10	= 1.62	
	120-180	02	26.0	0.30	0.10	= 1.56	
						6.60	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	180-240 240-300 300-311
	Qty Upto 8.73
	At the rate of Rs
	Item No 08:- Providing and
	using reinforced cemen
	and down size includi

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496427

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	180-240	02	29.0	0.30	0.10	= 1.74	
	240-300	02	27.0	0.30	0.10	= 1.62	
	300-311	01	10.0	0.30	0.10	= 0.30	
						10.26	
	Qty Hd to 8.73 cum						
	At the rate of Rs. 5115.73 →						44660.32
	Item No 08:- Providing and fixing 100mm thick pre-cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar						

Depth 6	Contents 7	Reference to last Measurement 8
	cement concrete of mix down size graded	
	0.69 cum and fine	
	concrete laid in	
	pacted, in foundation	
	terials, labour,	
.10	= 1.68	
.10	= 1.74	
.10	= 1.62	
0.10	= 1.56	
	6.60	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	bending machine mixed concrete laid in layers not exceeding 15cm th well compacted cost of all materials labour curing complete. as per specifications.	65	1.80	-	0.60	= 70.20 sqm	
	At the rate of Rs. 4533.45 →						318248.15
	Item No 09.- Providing and fixing MS grating: 260x260 mm:	10	-	-	-	= 10 nos	
	At the rate of Rs. 78.94 →						789.40
	Item No 10. Loading and unloading charges:						26177.76
	Bangalore. vide item no 278-25 @ 94.08 →						
	Abplly. N.D. 04/12/18 AE(Ly)					Total =	2191662.64

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	towards NH ←
	Abplly. N.D. AE(Ly)

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
d		in layers not exceeding	
		terials labour curing	
	0·60	= 70·20 sqm	
			318248·15
26	0x260 mm:		
	-	= 10 nos	
			789·40
:			
			26177·76
	Total =		2191662·64

M. A. R. 57 (Rul
Measurement B

No. B

496428-N

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8

Rama temple

(1x31m)

Hoodi - muneshwara layout:

towards NH

towards Amruthahalli

PLAN

Ashilly. N.D
AE(LT)

Assistant Executive Engineer,
Hodigehalli Sub Division

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate:-						
	1) Certified that the contractor has completed the works.						
	2) Certified that debris has been removed from the work spot.						
	Asstt Exe. Engr. N.D AE(WT)						
	Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.						

Serial No. ..... Royalty charge

Name of Work .....

Name of Contractor of nature of Age

Date of commencement of work .....

Date	Full description, etc, of wo
Sl.No.	2 Details
02	40mm → 58.31 cu
05	20mm → 90.97 cu
06	20mm → 8.73 cum
	Total
	Abstract:-
1)	Coarse aggrega
2)	fine aggregate

OOK

Depth 6	Contents 7	Reference to last Measurement 8
npleted the works.		
ored from the work spot.		
Executive Engineer, Sub Division, ore, B.B.M.P., galore.		

M. A. R. 57 (Rul
Measurement B

No. B

496429

Serial No. Royalty charges.

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date / L.No. 1	Full description, etc, of work 2 Details	Dimensions: Number (co-eff) 3	Length qty 4	Breadth (co-eff) 5	Depth qty 6	Contents 7	Reference to last Measurement 8
02	40mm → 58.31 cum	0.96	55.97	0.48	27.98		
05	20mm → 90.97 cum	0.85	8.47	0.416	37.84		
06	20mm → 8.73 cum	0.90	7.85	0.45	3.93		
	Total=		72.29		69.75		
	Abstract:-						
1)	Coarse aggregate:	72.29 x 105/cum =			7590.45		
2)	Fine aggregate:	69.75 x 103/cum =			7184.25		
					14774.70		

UREMENT BOOK

Date	Full description, etc, of	Dimensions				Contents	Reference to last Measurement
		nber	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				Total Rs.	21,91,663=00		
				IT	21917-00		
				CESS	21917-00		
				CBF	2192-00		
				LR	14774-00		
				CGST	19568-00		
				SGST	19568-00		
				Advance	99936-00		
				Cheque	20,91,727-00		

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 21,91,663-00

ಗಳಿಸ್ಲೆ ಪಾವು ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ. 99936-00

ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 20,91,727-00

Rs: Twenty lakh ninty one Thousand

ರೂ. Seven Hunded twenty seven only

ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು 5/12

ವ್ಯಾಪಾರಾಭಿವೃದ್ಧಿ ವಿಭಾಗ

ಬೃ. ಬೆ. ಮ. 05/12

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Premeasurements

Serial No. first and final b

Name of Work Improvements

Name of Contractor of nature of Ag

Date of commencement of work

Date	Full description, etc, of wo
1	2
	Est. cost:
	Job code:
	Head of account
	A.S.NO:-
	T.S.NO:-
	Agr no:-
	Workorder no:-
	Work order amo